X16339.ST25.txt
SEQUENCE LISTING

<110> Eli Lilly and Company

<120> Anti-Ghrelin Antibodies

<130> X-16339

<140> US 60/582111
<141> 2004-06-23

<160> 37

<170> PatentIn version 3.3

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tctggggtcc cagacaggtt cagtggcagt ggatcaggga cagatttcac actcaagatc   240

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<223> Polynucleotide sequence encoding 1621 light chain variable region

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X16339.ST25.txt

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<223>  1181 light chain variable region amino acid sequence

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            20                  25                  30


Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
        35                  40                  45


Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
    50                  55                  60


Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65                  70                  75                  80


Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
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Thr His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
                100                 105                 110


Arg


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<220>
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<223>  1621 light chain variable region amino acid sequence

<400>  4

Asp Val Val Leu Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1               5                   10                  15


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<pre>
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                20   25   30

      Asn Gly Ser Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
              35   40   45

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              50   55   60

      Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
      65   70   75   80

      Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
                      85   90   95

      Thr His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
                      100   105   110

      Arg
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<223>   1181 light chain CDR1 amino acid sequence

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1   5   10   15

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<223>   1621 light chain CDR1 amino acid sequence

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1   5   10   15

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X16339.ST25.txt
<213>   Mus sp.

<220>
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<223>   Light chain (generic for 1181 and 1621) CDR1 amino acid sequence

<220>
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<223>   Xaa is selected from the group consisting of Gly (G), Ala (A),
         Ser (S), Thr (T), Cys (C), Asn (N) and Gln (Q)

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1   5   10   15

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<210>   9
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<220>
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Ser Gln Ser Thr His Val Pro Tyr Thr
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<210>   10
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<212>   DNA
<213>   Mus sp.

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<223>   Polynucleotide sequence encoding 1181 heavy chain variable region

X16339.ST25.txt

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cctgaacagg gcctggagtg gattggatgg attgatcctg agaatggtga aactggatat   180

gccccgaagt tccagggcaa ggccactatg actgcagaca cagcctccaa tacagcctac   240

ctgcaactca gcagcctgac atctgaggac actgccctgt attactgtaa tgcaccttcg   300

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<223>  Polynucleotide sequence encoding 1621 heavy chain variable region
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cctgaacagg gcctggagtg gattggatgg attgatcctg agaatggtga aactggatat   180

gccccgaagt tccagggcaa ggccactatg actgcagaca cagcctccaa tacagcctac   240

ctgcaactca gcagcctgac atctgaggac actgccctgt atttctgtaa tgcaccttcg   300

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<400>  12
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Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ser Gly Ala
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Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr
            20                  25                  30

Phe Met Gln Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
        35                  40                  45
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X16339.ST25.txt

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Gly Trp Ile Asp Pro Glu Asn Gly Glu Thr Gly Tyr Ala Pro Lys Phe
    50                  55                  60

Gln Gly Lys Ala Thr Met Thr Ala Asp Thr Ala Ser Asn Thr Ala Tyr
65                  70                  75                  80

Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Leu Tyr Tyr Cys
                85                  90                  95

Asn Ala Pro Ser Val Val Ala Lys Tyr Phe Asp Val Trp Gly Ala Gly
                100                 105                 110

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<223> 1621 heavy chain amino acid sequence

<400> 13

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Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr
                20                  25                  30

Phe Val Gln Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Gly
            35                  40                  45

Trp Ile Asp Pro Glu Asn Gly Glu Thr Gly Tyr Ala Pro Lys Phe Gln
    50                  55                  60

Gly Lys Ala Thr Met Thr Ala Asp Thr Ala Ser Asn Thr Ala Tyr Leu
65                  70                  75                  80

Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Leu Tyr Phe Cys Asn
                85                  90                  95

Ala Pro Ser Val Val Ala Lys Tyr Phe Asp Val Trp Gly Ala Gly Thr
                100                 105                 110

Thr Val Thr Val Ser Ser
            115
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X16339.ST25.txt

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<213>    Mus sp.


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<400>    14

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1                5                    10


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<213>    Mus sp.


<220>
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<223>    1621 heavy chain CDR1 amino acid sequence

<400>    15

Gly Phe Asn Ile Lys Asp Tyr Phe Val Gln
1                5                    10


<210>    16
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<212>    PRT
<213>    Mus sp.


<220>
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<400>    16

Gly Phe Asn Ile Lys Asp Tyr Phe Xaa Gln
1                5                    10


<210>    17
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X16339.ST25.txt

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Trp Ile Asp Pro Glu Asn Gly Glu Thr Gly Tyr Ala Pro Lys Phe Gln
1               5                   10                  15


Gly



<210>   18
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<213>   Mus sp.



<220>
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<400>   18

Pro Ser Val Val Ala Lys Tyr Phe Asp Val
1               5                   10



<210>   19
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<212>   PRT
<213>   Homo sapiens



<220>
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<223>   Human ghrelin amino acid sequence

<220>
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<222>   (28)..(28)
<223>   Xaa is Arg or absent

<400>   19

Gly Ser Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1               5                   10                  15


Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Xaa
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<210>   20
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<213>   Mus sp.
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X16339.ST25.txt

<220>
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1   5   10   15

<210> 21
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<213> Mus sp.

<220>
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<223> 4641 light chain CDR3 amino acid sequence

<400> 21

Ser Gln Ser Thr Tyr Val Ser Tyr Thr
1   5

<210> 22
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<220>
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<223> 1451 light chain CDR1 amino acid sequence

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1   5   10   15

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1   5

<210> 24

X16339.ST25.txt

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<223>  4641 and 1451 heavy chain CDR1 amino acid sequence

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Ala Tyr Thr Phe Thr Thr Tyr Trp Met His
1               5               10


<210>  25
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<212>  PRT
<213>  Mus sp.


<220>
<221>  MISC_FEATURE
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Met Ile Asp Pro Ser Asn Ser Asp Thr Trp Leu Asn Gln Lys Phe Lys
1               5                   10                  15


Asp



<210>  26
<211>  17
<212>  PRT
<213>  Mus sp.


<220>
<221>  MISC_FEATURE
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Met Ile Asp Pro Tyr Asn Ser Glu Thr Trp Leu Asn Gln Lys Phe Lys
1               5                   10                  15


Asp



<210>  27
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<212>  PRT
<213>  Mus sp.
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X16339.ST25.txt

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<222>  (1)..(5)
<223>  4641 and 1451 heavy chain CDR3 amino acid sequence

<400>  27

Thr Gly Phe Asp Tyr
1               5


<210>  28
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<212>  PRT
<213>  Mus sp.


<220>
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<223>  Light chain (generic for 4641, 1451, 1181, and 1621) CDR1 amino
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<223>  Xaa is selected from the group consisting of Asn (N) and Asp (D)

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<222>  (12)..(12)
<223>  Xaa is selected from the group consisting of Gly (G), Ala (A),
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Arg Ser Ser Gln Ser Leu Val His Ser Xaa Gly Xaa Thr Tyr Leu Xaa
1               5               10              15


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<213>  Mus sp.


<220>
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<220>
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<223>  Xaa is selected from the group consisting of His (H), Tyr (Y),
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<220>
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X16339.ST25.txt

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        and Thr (T)

<400>   29

Ser Gln Ser Thr Xaa Val Xaa Tyr Thr
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<210>   30
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<220>
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<223>   4641 light chain variable region amino acid sequence

<400>   30

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1               5                   10                  15


Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
                20              25                  30


Asp Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
            35                  40                  45


Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
    50                  55                  60


Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65                  70                  75                  80


Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
                85                  90                  95


Thr Tyr Val Ser Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
                100                 105                 110


Arg


<210>   31
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<213>   Mus sp.


<220>
<221>   MISC_FEATURE
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X16339.ST25.txt

<222> (1)..(113)
<223> 1451 light chain variable region amino acid sequence

<400> 31

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Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
                20   25   30

Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
            35   40   45

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
        50   55   60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65   70   75   80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
                85   90   95

Thr His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
                100   105   110

Arg

<210> 32
<211> 114
<212> PRT
<213> Mus sp.

<220>
<221> MISC_FEATURE
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<223> 4641 heavy chain variable region amino acid sequence

<400> 32

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Ser Val Lys Met Ser Cys Arg Ala Ser Ala Tyr Thr Phe Thr Thr Tyr
                20   25   30

Trp Met His Trp Val Arg Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
            35   40   45

Gly Met Ile Asp Pro Ser Asn Ser Asp Thr Trp Leu Asn Gln Lys Phe
        50   55   60

X16339.ST25.txt

Lys Asp Lys Ala Thr Leu Asn Val Asp Arg Ser Ser Asn Thr Ala Tyr
65   70   75   80

Met Gln Leu Thr Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
                    85   90   95

Ala Arg Thr Gly Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val
            100   105   110

Ser Ser

<210> 33
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<220>
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<223> 1451 heavy chain variable region amino acid sequence

<400> 33

Gln Val His Val Lys Gln Ser Gly Pro Glu Leu Val Arg Pro Gly Ala
1   5   10   15

Ser Val Lys Met Ser Cys Lys Ala Ser Ala Tyr Thr Phe Thr Thr Tyr
            20   25   30

Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
        35   40   45

Gly Met Ile Asp Pro Tyr Asn Ser Glu Thr Trp Leu Asn Gln Lys Phe
    50   55   60

Lys Asp Lys Ala Thr Leu Asn Val Asp Arg Ser Ser Asn Thr Ala Tyr
65   70   75   80

Met Lys Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
                    85   90   95

Ala Arg Thr Gly Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val
            100   105   110

Ser Ser

<210> 34

X16339.ST25.txt

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<213>  Mus sp.


<220>
<221>  misc_feature
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<223>  1451 LCVR polynucleotide

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aacacctatt tacattggta cctgcagaag ccaggccagt ctccaaagct cctgatctac    180

aaagtttcca accgattttc tggggtccca gacaggttca gtggcagtgg atcagggaca    240

gatttcacac tcaagatcag cagagtggag gctgaggatc tgggagttta tttctgctct    300

caaagtacac atgttccgta cacgttcggt ggaggcacca agctggaaat caaacgggct    360

gatgcttcac caactgta                                                  378


<210>  35
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<212>  DNA
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<223>  1451 HCVR polynucleotide

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tcctgcaagg cttcagccta taccttcacc acctactgga tgcactgggt gaaacagagg    120

cctggacaag gccttgagtg gattggcatg attgatcctt acaatagtga aacttggtta    180

aatcagaaat tcaaggacaa ggccacattg aatgtagaca gatcctccaa cacagcctac    240

atgaagctca gcagcctgac atctgaggac tctgcagtct attactgtgc aagaactggt    300

tttgactact ggggccaagg caccactctc acagtctcct cagccaaaac gacacccca    360


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<212>  DNA
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<220>
<221>  misc_feature
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<223>  4641 LCVR polynucleotide

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X16339.ST25.txt

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cttggagatc aagcctccat ctcttgcaga tctagtcaga gccttgtaca cagtgatgga   120

aacacctatt tacattggta cctgcagaag ccaggccagt ctccaaagct cctgatctac   180

aaagtttcca accgattttc tggggtccca gacaggttca gtggcagtgg atcagggaca   240

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caaagtacat atgtttcgta cacgttcgga ggggggacca agctggaaat aaaacgggct   360

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<220>
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tcctgcaggg cttcagccta taccttcacc acctactgga tgcactgggt gagacagagg   120

cctggacaag gccttgagtg gattggcatg attgatcctt ccaatagtga tacttggtta   180

aatcagaagt tcaaggacaa ggccacattg aatgtagaca gatcctccaa cacagcctac   240

atgcagctca ccagcctgac atctgaggac tctgcagtct attactgtgc aagaactggt   300

tttgactact ggggccaagg caccactctc acagtctcct cagccaaaac gacaccccca   360
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